

WHAT IS CLAIMED IS:

- 1 1. A method of facilitating compressed message
- 2 communication between a first communication entity and a
- 3 second communication entity, said method comprising the steps
- 4 of:
- 5 compressing, at said first communication entity, a
- 6 portion of a first communication message using a first
- 7 dictionary to produce a first compressed communication
- 8 message;
- 9 transmitting said first compressed communication message
- 10 to said second communication entity;
- 11 receiving said first compressed communication message
- 12 at said second communication entity;
- 13 decompressing, at said second communication entity, said
- 14 first compressed communication message using a second
- 15 dictionary to reproduce said first communication message; and
- 16 adding said portion of said first communication message
- 17 to said second dictionary.

1 2. The method of claim 1, said method further
2 comprising the steps of:
3 compressing, at said second communication entity, a
4 portion of a second communication message using said second
5 dictionary to produce a second compressed communication
6 message;
7 transmitting said second compressed communication
8 message to said first communication entity;
9 receiving said second compressed communication message
10 at said first communication entity;
11 adding said portion of said first communication message
12 to said first dictionary; and
13 decompressing, at said first communication entity, said
14 second compressed communication message using said first
15 dictionary to reproduce said second communication message.

1 3. The method of claim 2, said method further
2 comprising the step of:
3 adding said portion of said second communication message
4 to said first dictionary.

1 4. The method of claim 2, wherein said step of
2 transmitting said first compressed communication message and
3 said step of transmitting said second compressed
4 communication message comprises transmitting over a wireless
5 interface.

1 5. The method of claim 3, said method further
2 comprising the steps of:

3 compressing, at said first communication entity, a
4 portion of a third communication message using said first
5 dictionary to produce a third compressed communication
6 message;

7 transmitting said third compressed communication message
8 to said second communication entity;

9 receiving said third compressed communication message
10 at said second communication entity;

11 decompressing, at said second communication entity, said
12 third compressed communication message using said second
13 dictionary to reproduce said third communication message; and

14 adding said portion of said second communication message
15 to said second dictionary.

1 6. The method of claim 1, said method further
2 comprising the steps of:

3 compressing, at said second communication entity, a
4 portion of a second communication message using a third
5 dictionary to produce a second compressed communication
6 message;

7 transmitting said second compressed communication
8 message to said first communication entity;

9 adding said portion of said second communication message
10 to said third dictionary;

11 receiving said second compressed communication message
12 at said first communication entity;

13 decompressing, at said first communication entity, said
14 second compressed communication message using a fourth
15 dictionary to reproduce said second communication message;
16 and

- 17 adding said portion of said second communication message
18 to said fourth dictionary.

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1 7. A communications device for facilitating compressed
2 message communication, said communications device comprising:
3 a receiver unit;
4 a transmitter unit;
5 a processor; and
6 memory having stored therein at least one dictionary and
7 program software having instructions which, when executed by
8 the processor, causes the communications device to:
9 receive, by said receiver unit, a first
10 communication message from another communications device,
11 said communication message having a compressed portion
12 therein;
13 decompress, using said at least one dictionary,
14 said compressed portion of said first communication message;
15 and
16 add said compressed portion to said at least one
17 dictionary.

1 8. The communications device of claim 7, wherein the
2 program software further includes instructions which, when
3 executed by the processor, causes the communications device
4 to:

5 compress, using said at least one dictionary, a
6 portion of a second communication message to obtain a
7 compressed portion thereof;

8 transmit, by said transmitter unit, said second
9 communication message having the compressed portion to said
10 another communications device; and

11 add, to said at least one dictionary, the
12 compressed portion of said second communication message upon
13 reception, by said receiver unit, of a third communication
14 message by said another communications device.

1 9. The communications device of claim 7, wherein said
2 communications device comprises a mobile terminal.

1 10. The communications device of claim 7, wherein said
2 communications device comprises a base station.

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1 11. A communications device, comprising:
2 a receiver unit;
3 a transmitter unit;
4 a processor; and
5 memory having stored therein at least one dictionary and
6 program software having instructions which, when executed by
7 the processor, causes the communications device to:
8 compress, using said at least one dictionary, a
9 portion of a communication message to obtain a compressed
10 portion thereof;
11 transmit, by said transmitter unit, said
12 communication message having the compressed portion to
13 another communications device; and
14 add, to said at least one dictionary, the
15 compressed portion of said communication message upon
16 reception, by said receiver unit, of a second communication
17 message by said another communications device.

1 12. The communications device of claim 11, wherein said
2 at least one dictionary comprises a first dictionary for
3 storing said compressed portion and a second dictionary for
4 storing at least one compressed portion of messages received
5 by said receiver unit.

1 13. The communications device of claim 11, wherein said
2 communications device comprises a mobile terminal.

1 14. The communications device of claim 11, wherein said
2 communications device comprises a base station.

1 15. The communications device of claim 11, wherein said
2 another communications device comprises a mobile terminal.

1 16. The communications device of claim 11, wherein said
2 another communications device comprises a base station.

1 17. A communication system for facilitating compressed
2 message communication, said communication system comprising:
3 a first communication entity for sending a first
4 communication message, said first communication entity
5 comprising:
6 a first dictionary;
7 a first compressor in communication with said first
8 dictionary, said first compressor using said first
9 dictionary to compress a portion of a first communication
10 message to produce a first compressed communication message;
11 and
12 a first transmitting means in communication with
13 said first compressor, said first transmitting means
14 transmitting said first compressed communication message; and
15 a second communication entity, in communication with
16 said first communication entity, for receiving said first
17 compressed communication message, said second communication
18 entity comprising:
19 a first receiving means for receiving said first
20 compressed communication message;

21 a second dictionary;
22 a first decompressor, in communication with said
23 first receiving means and said second dictionary, said first
24 decompressor decompressing, said first compressed
25 communication message using said second dictionary to
26 reproduce said first communication message; and
27 a first updating means, in communication with said
28 decompressor and said second dictionary, said first updating
29 means updating said portion of said first communication
30 message to said second dictionary.

1 18. The communication system of claim 17, said second
2 communication entity further comprising:
3 a second compressor, in communication with said second
4 dictionary, said second compressor compressing a portion of
5 a second communication message using said second dictionary
6 to produce a second compressed communication message; and
7 a second transmitting means, in communication with said
8 second compressor, said second transmitting means

9 transmitting said second compressed communication message to
10 said first communication entity.

1 19. The communication system of claim 18, said first
2 communication entity further comprising:

3 a second receiving means for receiving said second
4 compressed communication message;

5 a second decompressor, in communication with said second
6 receiving means and said first dictionary, said second
7 decompressor decompressing said second compressed
8 communication message using said first dictionary to
9 reproduce said second communication message; and

10 a second updating means, in communication with said
11 decompressor and said first dictionary, said second updating
12 means updating a first one of said portion of said first
13 communication message and said portion of said second
14 communication message to said first dictionary.